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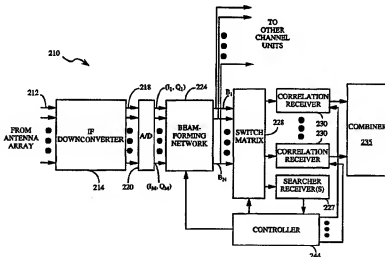
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(71) Applicant: QUALCOMM INCORPORATED [US/US]; 6455 Lusk Boulevard, San Diego, CA 92121 (US).			
(72) Inventors: ANTONIO, Franklin, P.; 2765 Cordoba Cove, Del Mar, CA 92014 (US). GILHOUSEN, Klein, S.; 6474 Jackson Creek Road, Bozeman, MT 59715 (US). WOLF, Jack, K.; 8529 Prestwick Drive, La Jolla, CA 92037 (US). ZEHAVALI, Ephraim; 15A Watson Street, 34751 Haifa (IL).			
(74) Agent: MILLER, Russell, B.; Qualcomm Incorporated, 6455 Lusk Boulevard, San Diego, CA 92121 (US).			

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(54) Title: ADAPTIVE SECTORIZATION IN A SPREAD SPECTRUM COMMUNICATION SYSTEM



(57) Abstract

A system and method for adaptively sectorizing channel resources within a digital cellular communication system. The system utilizes an antenna array for providing at least first and second electromagnetic beams for receiving a first information signal transmitted by a specific one of a plurality of users (22), thereby generating first and second received signals. A first set of beam-forming signals are then generated from the first and second received signals by a beam-forming network (224) and a switch matrix (228). Demodulating receivers (230) are provided for demodulating at least first and second beam-forming signals included within the first set of beam-forming signals, thereby producing first and second demodulated signals. The system further includes a tracking network (240) for tracking multipath information signals, received from various positions and angles of incidence.